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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/054,210	11/12/2001	Dirk Quintens	27500-9	4653
7590 06/16/2004		EXAMINER		
Joseph T. Guy Ph.D.			SHEWAREGED, BETELHEM	
Nexsen Pruet Jacobs & Pollard LLP 201 W. McBee Avenue Greenville, SC 29603			ART UNIT	PAPER NUMBER
			1774	

DATE MAILED: 06/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.



· ************************************	*	Application No.	Applicant(s)				
Office Action Summary			' ',	e ~			
		10/054,210	QUINTENS ET AL.				
	Office Action Summary	Examiner	Art Unit				
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Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the o	correspondence addre	ess			
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tire within the statutory minimum of thirty (30) day rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	mely filed ys will be considered timely, in the mailing date of this comn ED (35 U.S.C. § 133),	nunication.			
Status							
1)[🛛	Responsive to communication(s) filed on 22 Ma	arch 2004.					
	This action is FINAL . 2b) This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under $\boldsymbol{\mathcal{E}}$	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Dispositi	on of Claims						
·		a annlication					
· ·	Claim(s) 1,2,4-6 and 10-19 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.						
	5)⊠ Claim(s) <u>4-6,18 and 19</u> is/are allowed.						
	☑ Claim(s) <u>1,2 and 10-17</u> is/are rejected.						
	Claim(s) is/are objected to.						
8)	Claim(s) are subject to restriction and/or	election requirement.					
Annlicati	on Papers						
	•						
	The specification is objected to by the Examiner		-				
لــا(۱۵	The drawing(s) filed on is/are: a) acce	•					
	Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction	•	, ,	4 40474)			
11)[The oath or declaration is objected to by the Exa						
Priority u	nder 35 U.S.C. § 119						
a)[Acknowledgment is made of a claim for foreign and All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau see the attached detailed Office action for a list of	have been received. have been received in Application ty documents have been received (PCT Rule 17.2(a)).	on No ed in this National Sta	age			
Attachment		🗖 .					
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
3) 🔲 Inforn	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	5) Notice of Informal P. 6) Other:		2)			

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DETAILED ACTION

1. Applicant's response filed on 03/22/2004 has been fully considered. Claims 3, 7-9 and 20-35 are canceled, claims 4-6, 18 and 19 are amended, and thus claims 1, 2, 4-6 and 10-19 are pending.

Claim Rejections - 35 USC § 102

2. Claims 1, 2 and 10-17 are rejected under 35 U.S.C. 102(e) as being anticipated by Asano et al. (US 6,511,736 B1).

Asano discloses an ink jet recording medium comprising a substrate, an undercoat layer on the substrate, a multi-layered ink fixing layer on the undercoat layer, wherein the multi-layered ink fixing layer comprises an outermost ink fixing layer and one or more intermediate ink fixing layer (col. 2, line 35 and col. 3, line10). Since the undercoat layer is capable of fixing ink (col. 6, lines 11-13 and col. 7, lines 13-15), it is equivalent to the claimed receiving layer. The outermost ink fixing layer is equivalent to the claimed top layer. The outermost ink fixing layer comprises cationic compound (col. 3, line 14) such as polymerization product of dimethyldiallylammonium chloride (col. 14, line 32). The undercoat layer comprises a pigment such as silica (col. 4, line 1) and a binder such as polyvinyl alcohol (col. 6, line 55). The undercoat layer may optionally contain the cationic compound (col. 7, lines 13-15). The undercoat layer further comprises a polymer resin containing repeating units derived from vinyl acetate monomer or vinyl propionate (col. 8, lines 9-44).

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Response to Arguments

3. Applicant's argument is based on that the prior art teaches that the polymer resin and the colloidal silica disclosed in col. 8, lines 9-44 must be present as a complex which teaches away from the claimed invention. The above argument is not persuasive because the prior art is not limited to a complex of colloidal silica with a polymer resin prepared by polymerizing at least one monomer having at least ethylenically unsaturated bond to enhance the gloss of the recording material, the use of colloidal silica or polymer resin prepared by polymerizing at least one monomer having at least ethylenically unsaturated bond in place of the complex is also taught in col. 8, lines 9-12. When the prior art uses polymer resin prepared by polymerizing at least one monomer having at least ethylenically unsaturated bond, the claimed invention reads on the prior art.

Allowable Subject Matter

4. Claims 4-6, 18 and 19 are allowed. The closest art Asano fails to teach or suggest the polymer latex recited in claims 4-6, 18 and 19 as its polymer resin to be contained in the undercoat layer.

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Betelhem Shewareged whose telephone number is 571-

272-1529. The examiner can normally be reached on Mon.-Thur. 7:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Cynthia H Kelly can be reached on 571-272-1526. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Betelhem Shewareged

June 10, 2004.

CYNTHIA H. KELLY SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1700

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